

## Soil Series Present within the Site Area

Soil Series			Definition
	Surface layer	0 to 8"	grayish brown silt loam
Beltsville Silty	Subsoil		yellowish brown clay loam slow permeability
loam	Fragipan layer		yellowish brown loam from very slow permeability
louin	Beneath fragipan		brownish yellow clay loam moderately rapid permeability
	Substratum		mottled brown, gray and yellow sandy loam
(37B)	Areal extent:	2 to 25 acres.	
	Slope:	nearly level to gentle slope. Slopes and ridge crests are convex but	
	Drainaga	range to concave. deep, moderately well-drained moderately well drained with a slow percolation rate.	
	Drainage: Occurrence:		reli drained with a slow percolation rate.  of woodland acreage. Good tree productivity upland
	Occurrence.	woodlands	or woodiand acreage. Good free productivity upland
	Inclusions:		rately well-drained Matapeake & Mattapax soils (when
	moraciono.	fragipan not present)	
	Permeability:	slow to medium surface runoff; very slow above & below fragipan slight to	
	<b>,</b>	moderate erosion hazard.	
	Water table:	perched seasonal high water table at a depth of 1.5 to 2.5 feet. Depth to	
		bedrock is > 60"	
	Limitations:		Iding capacity Soft when wet; not suited for building site
		development	does not support heavy construction vehicles
	Surface layer		e, grayish brown silty loam; friable
Mattapex Silt Ioam	Subsoil		e brown / gray silt loam or silty clay loam; low shrink-swell
	0.1.1.1	potential.	
	Substratum	down to 85"	mottled yellowish brown sandy loam
(400)	Area extent:	2 to 15 acres	
(46B)	Slope: Drainage:	2 to 6 %; gen well-drained	lly sloping
	Occurrence:		and terraces;
	Inclusions:		if well drained Matapeake soils are on slightly higher areas
	Permeability:	moderate with moderate water capacity. Surface runoff medium;	
	•		sion hazard; surface rapid with severe erosion
	Characteristics:	mapped in woodlands; productive soils for loblolly and Virginia pine,	
		poplar and oaks	
	Limitations:	soft when we	
			ends to a depth of +60 ".
			er table and low strength
		vehicles	e base material to provide enough strength to support
	Surface layer	1 to 2"	gravich brown candy loam; frieble casily tilled
	Surface layer Subsurface layer		grayish brown sandy loam; friable easily tilled yellowish brown or pale brown sandy loam
Dumfries Sandy	Subsoil	23" thick	yellowish brown sandy loam; low shrink-swell potential.
loam	Substratum	84" deep	yellowish brown or pale brown sandy loam
	Area extent:	2 to 15 acres	
(61C/61D)	Slope:		γ sloping, well-drained
(0.5/015)	Drainage:	poorly- draine	
	Occurrence:	on sides of sl	opes next to drainageways; occupies woodlands particularly
		loblolly and $V$	'irginia pine
	Inclusions:	well-drained	Lunt soils that are in depressions
	Permeability:		apid in subsoil & substratum; moderate water capacity;
			ace runoff with moderate water capacity. Surface runoff rapid
	Limitations:	with severe e	
	Limitations:	moderate erc	sional hazard

Soil Series	Definition			
		is cause contamination hazard to ground water and nearby streams root-zone extends to a depth of +60 ". used for septic tank absorption fields or sanitary landfills.		
Matapeake Silt Ioam (45B)	Surface layer Subsoil Substratum Slope: Drainage: Inclusions: Water table: Permeability:	9" grayish brown silt loam 9 to 45" - strong brown silty clay loam to 65" light yeallowish brown sandy loam Lacks fragipan of the Beltsville 2 to 7 % in a higher landscape position and better drained than 37B soils small areas of Mattapex and Beltsville soils. seasonal high water table with surface water existing in winter/early spring or after heavy rains moderate permeability in surface layer and subsoil; moderate water capacity; medium runoff potential		
	Constraints:	Suitable for building site development; moderate erosion hazard		
Lunt Fine sand (49C)	Surface layer Subsoil Substratum Slope: Soil type: Drainage: Occurrence: Inclusions:	0 to 7" thick - dark grayish brown silt loam 7 to 19" thick - strong brown clay 19 to 39 " - strong brown clay loam. 39 to 72" - yellowish brown sandy loam 7 to 15 % deep, strongly sloping, convex with concave swales and small drainageways. well-drained narrow to medium wide ridges. Areas are irregularly rounded or oblong. 2 to 20 acres. Keyport & Quantico Soils, plus small areas of red gravelly surface & gravelly subsoil layers. Few areas are eroded Few areas are underlain by massive gray marine silt and clay.		
	Permeability: Limitations:	moderate with to moderately rapid in the surface layer and moderate in the substratum. suitable for site development; does not have sufficient strength & stability to support vehicular traffic, but this can be corrected by strengthening or replacing base material. High shrink-swell potential; high clay content makes soil difficult to spread.  ½ acreage in woodland. Runoff is medium. Erosion hazard is severe,		
Source: USDA 109		depth to bedrock is >60" to bedrock		

Source: USDA, 1982